



M 6.4, 12km SW of Searles Valley, CA

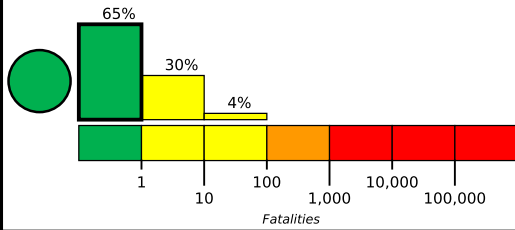
Origin Time: 2019-07-04 17:33:49 UTC (Thu 10:33:49 local)

Location: 35.7052° N 117.5060° W Depth: 10.7 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Created: 3 days, 21 hours after earthquake

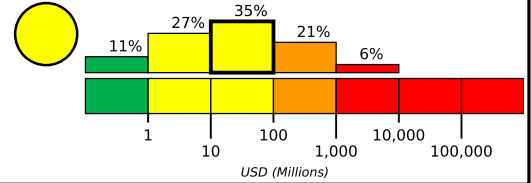
Estimated Fatalities



Yellow alert for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of the United States. Past events with this alert level have required a local or regional level response.

Green alert for shaking-related fatalities. There is a low likelihood of casualties.

Estimated Economic Losses

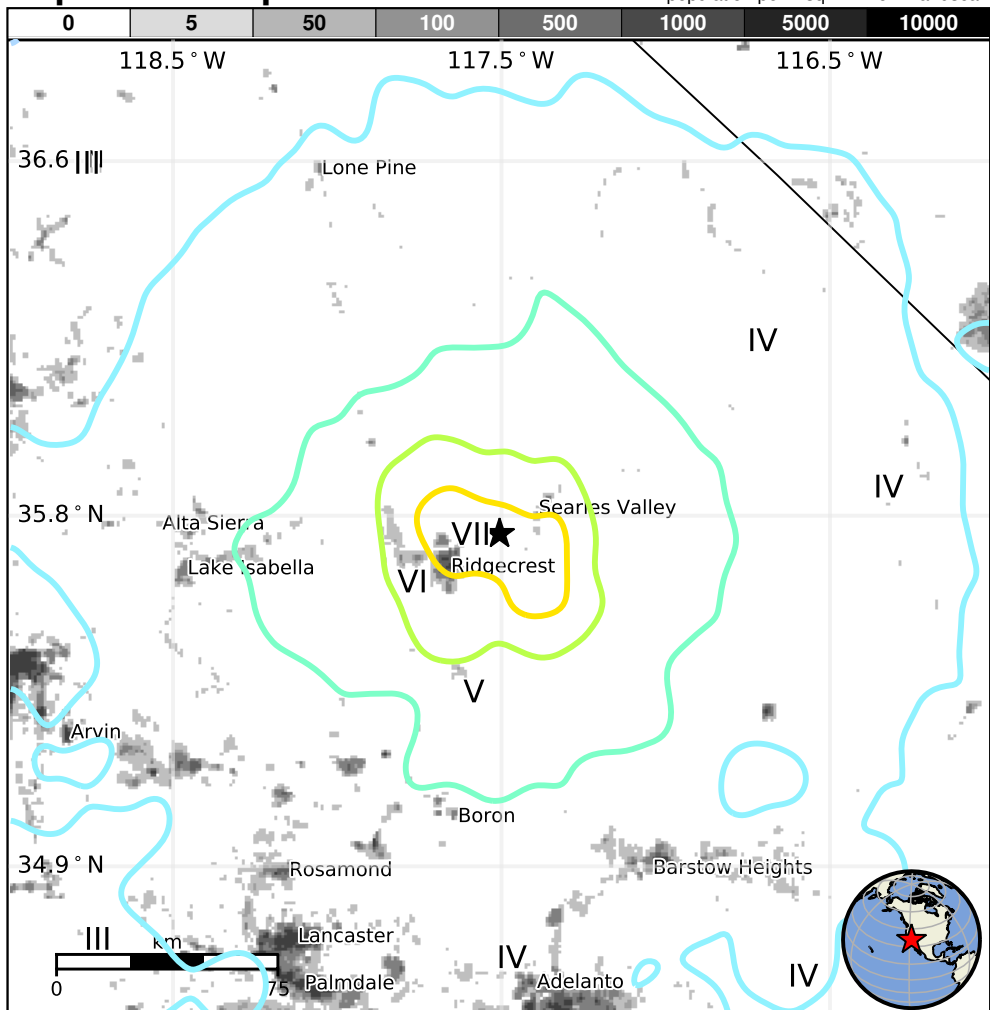


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	856k*	1,741k	4k	13k	33k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-06-28	169	5.6	VI(1,267k)	1
1992-06-28	191	7.3	VIII(23k)	1
1971-02-09	165	6.6	IX(21k)	65

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
VII	Ridgecrest	28k
VI	China Lake Acres	2k
VI	Searles Valley	2k
VI	Inyokern	1k
V	Weldon	3k
IV	North Edwards	1k
IV	Palmdale	153k
IV	Lancaster	157k
IV	Santa Clarita	176k
IV	Valencia	148k
III	Simi Valley	124k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/ci38443183#pager>

bold cities appear on map.

(k = x1000)

Event ID: ci38443183